

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 15.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.10.2021	15.11.2021	8.195	412.3	18.32
2	18.10.2021	15.11.2021	8.164	409.2	18.19
3	18.10.2021	22.07.2020	8.172	384.9	17.11

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 30.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Columns

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.11.2021	30.11.2021	8.165	388.9	17.28
2	23.11.2021	30.11.2021	8.125	396.3	17.61
3	23.11.2021	30.11.2021	8.158	405.8	18.04

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 21.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Columns

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.11.2021	21.12.2021	8.168	606.3	26.95
2	23.11.2021	21.12.2021	8.184	619.8	27.55
3	23.11.2021	21.12.2021	8.196	625.6	27.80

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 13.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Lintel Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.12.2021	13.12.2021	8.194	389.6	17.32
2	06.12.2021	13.12.2021	8.168	399.3	17.75
3	06.12.2021	13.12.2021	8.182	408.1	18.14

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 03.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Lintel Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.12.2021	03.01.2022	8.198	606.3	26.95
2	06.12.2021	03.01.2022	8.184	616.2	27.39
3	06.12.2021	03.01.2022	8.168	628.9	27.95

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 13.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.12.2021	13.12.2021	8.145	339.6	15.09
2	06.12.2021	13.12.2021	8.162	346.5	15.40
3	06.12.2021	13.12.2021	8.176	330.4	14.68

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 03.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.12.2021	03.01.2022	8.168	515.2	22.90
2	06.12.2021	03.01.2022	8.149	506.3	22.50
3	06.12.2021	03.01.2022	8.152	489.6	21.76

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 30.12.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Roof slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.12.2021	30.12.2021	8.166	395.3	17.57
2	23.12.2021	30.12.2021	8.189	408.2	18.14
3	23.12.2021	30.12.2021	8.194	416.8	18.52

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 20.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Roof slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₅

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.12.2021	20.01.2022	8.180	616.3	27.39
2	23.12.2021	20.01.2022	8.169	608.9	27.06
3	23.12.2021	20.01.2022	8.152	626.4	27.84

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date : 24.01.2022

TEST REPORT ON CERAMIC TILES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of Work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 20.01.2022 to 24.01.2022

I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	48.9	47.82	Average 47, individual minimum 44 N/mm ²
2	46.9		
3	47.5		
4	47.6		
5	48.2		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

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III.

STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 01.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.01.2022	01.02.2022	8.168	256.2	11.39
2	25.01.2022	01.02.2022	8.184	284.2	12.63
3	25.01.2022	01.02.2022	8.152	276.3	12.28

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 22.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.01.2022	22.02.2022	8.169	385.2	17.12
2	25.01.2022	22.02.2022	8.174	376.9	16.75
3	25.01.2022	22.02.2022	8.152	362.5	16.11

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 04.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2022	04.02.2022	8.164	256.3	11.39
2	28.01.2022	04.02.2022	8.159	268.2	11.92
3	28.01.2022	04.02.2022	8.146	272.5	12.11

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 25.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2022	25.02.2022	8.144	375.8	16.70
2	28.01.2022	25.02.2022	8.158	370.2	16.45
3	28.01.2022	25.02.2022	8.182	383.9	17.06

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 04.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2022	04.02.2022	8.147	285.6	12.69
2	28.01.2022	04.02.2022	8.182	262.3	11.66
3	28.01.2022	04.02.2022	8.165	275.2	12.23

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 25.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of the work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.01.2022	25.02.2022	8.178	375.5	16.69
2	28.01.2022	25.02.2022	8.169	386.3	17.17
3	28.01.2022	25.02.2022	8.152	362.8	16.12

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P. V. Kanth
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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 08.02.2022

KERB STONE (CORE) TEST REPORT

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.
Agency : Sri K R Santhosh Kumar, Contractor, Bangalore.
Name of Work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.
No. of Sample Tested : 03
Date of Testing : 08.02.2022
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M₁₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	71.00	0.328	2352.80	1.42	0.937	24.90	12.68	13.70	12.84	16.05
2	50.00	73.00	0.339	2365.09	1.46	0.942	25.90	13.19	14.25	13.42	16.77
3	50.00	74.00	0.346	2381.30	1.48	0.944	26.30	13.39	14.47	13.65	17.07

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorized Signatory

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KRS/W No.07/2021-22

Date: 08.02.2022

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client : Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.

Contractor : Sri K R Santhosh Kumar, Contractor, Bangalore.

Name of Work : Construction of Ambedkar Bhavana 1st Floor and Balance works at Jakkur in Ward No.07, BBMP, Bangalore.

No. of Sample Tested : 03

Date of Testing : 08.02.2022

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	82.00	0.379	2353.94	1.64	0.961	32.80	16.70	18.04	17.34	21.67
2	50.00	84.00	0.391	2370.65	1.68	0.965	33.50	17.06	18.43	17.79	22.24
3	50.00	86.00	0.401	2374.74	1.72	0.970	34.10	17.37	18.76	18.19	22.74

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sri K R Santhosh Kumar
Authorised Signatory